Figure 1 System Architecture

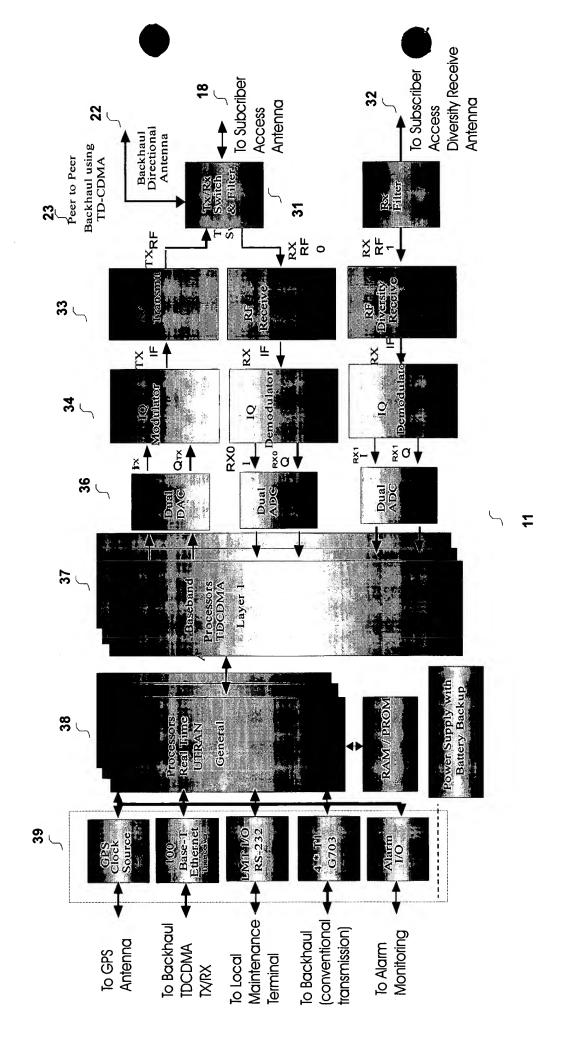


Figure 2 Basestation (NodeB)

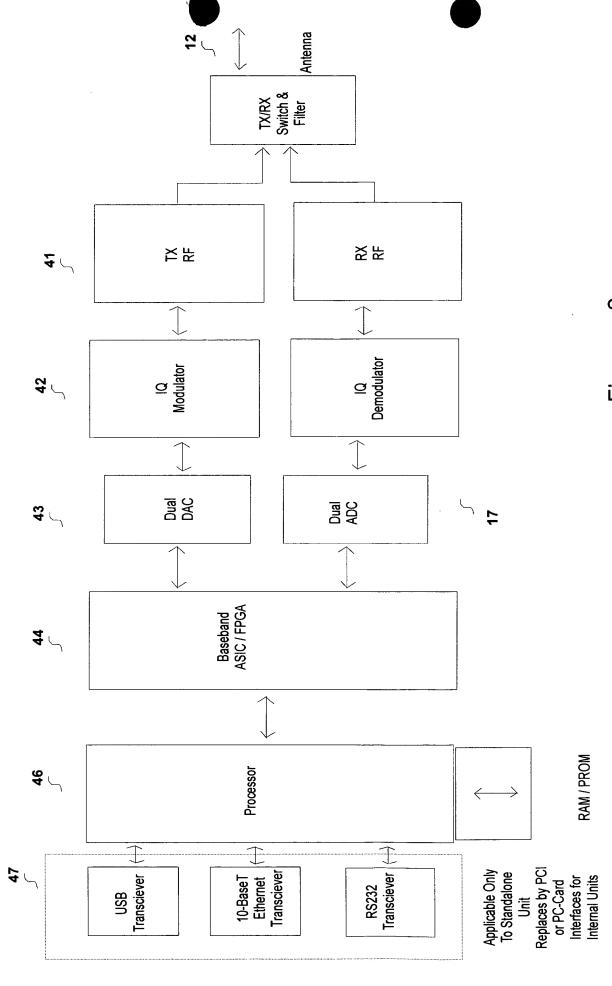
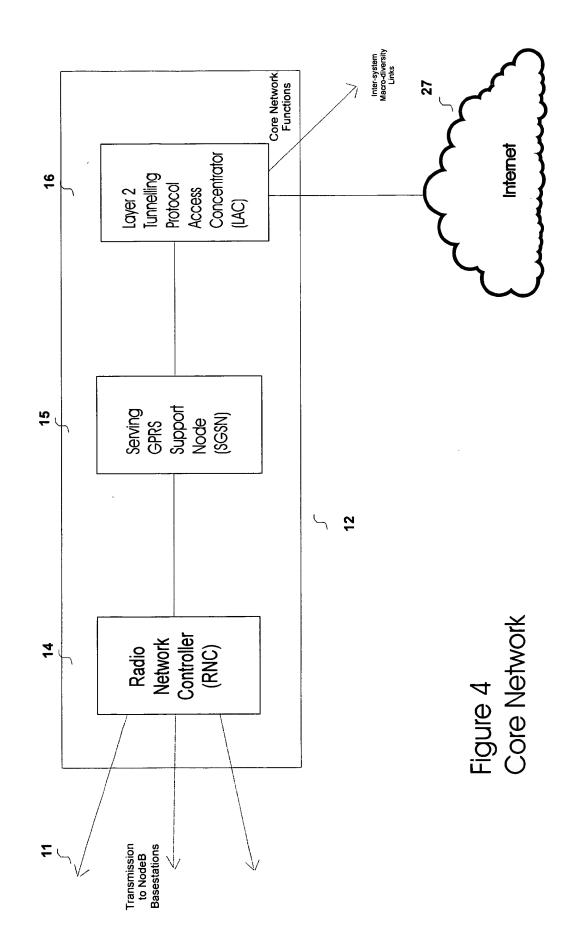


Figure 3 User Equipment (UE)



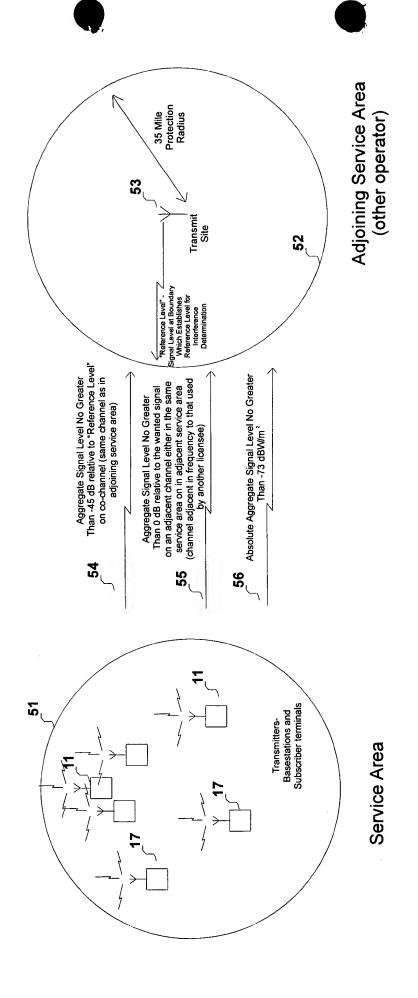


Figure 5 FCC Interference Rules

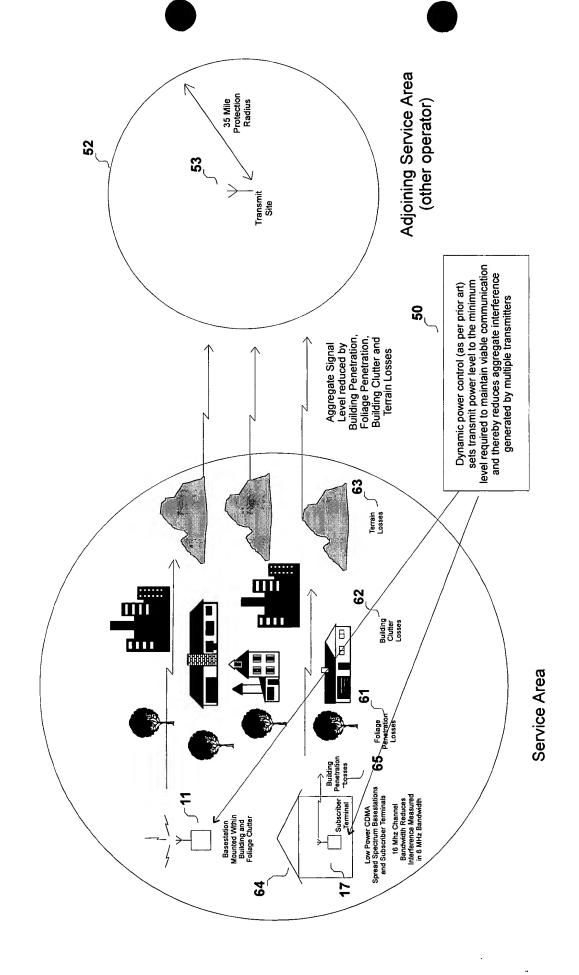
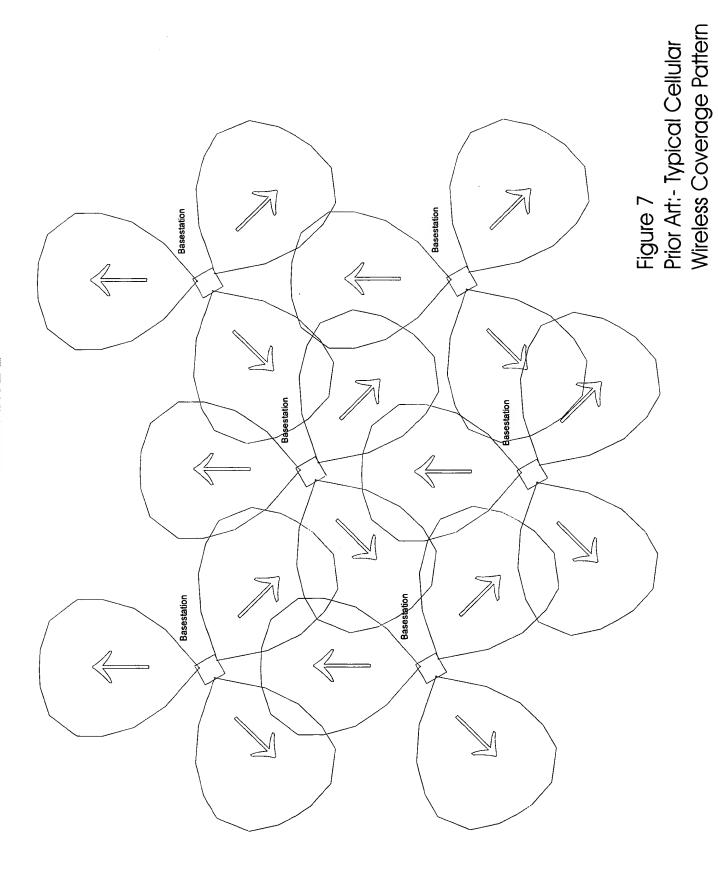


Figure 6 Interference Avoidance



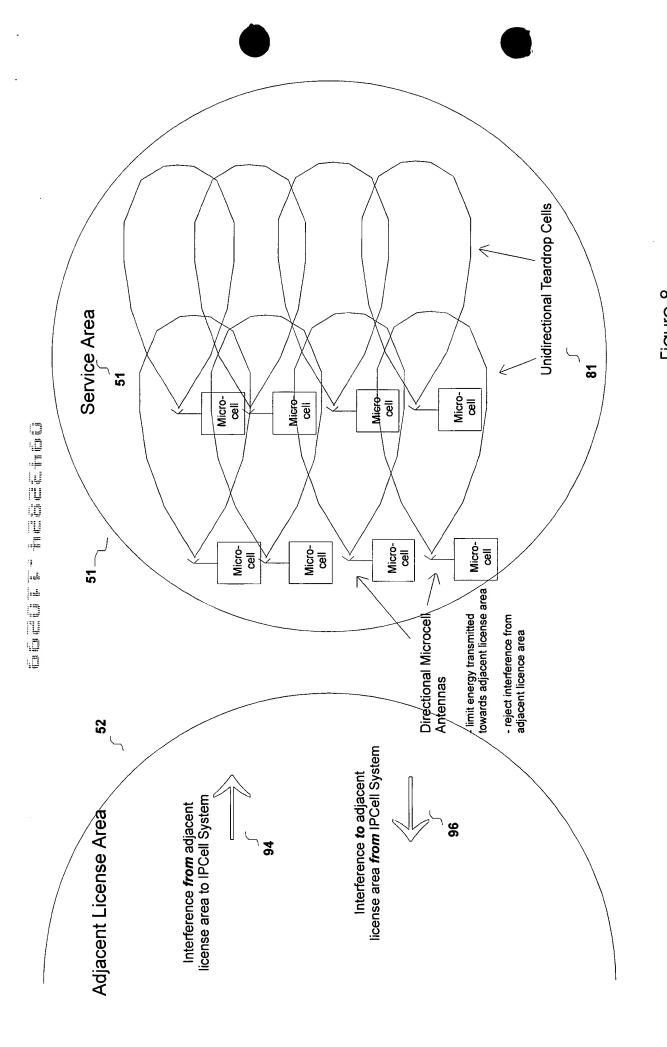


Figure 8 Interference Reduction -Unidirectional Teardrop Cellular Wireless Coverage Pattern

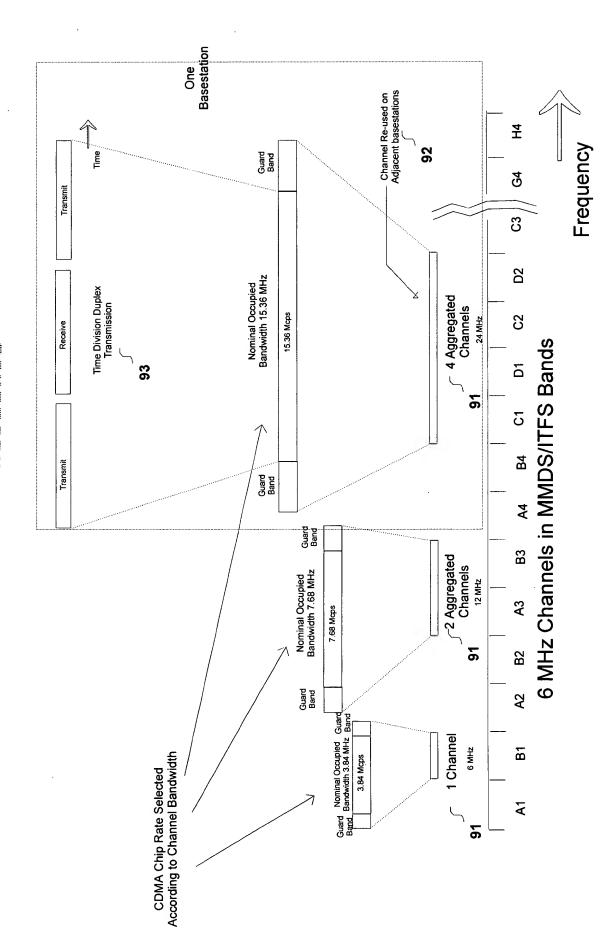


Figure 9 RF Channel Utilization

Each code used is orthogonal to other codes (these are mutually non-interfering codes when combined (summed)for example:

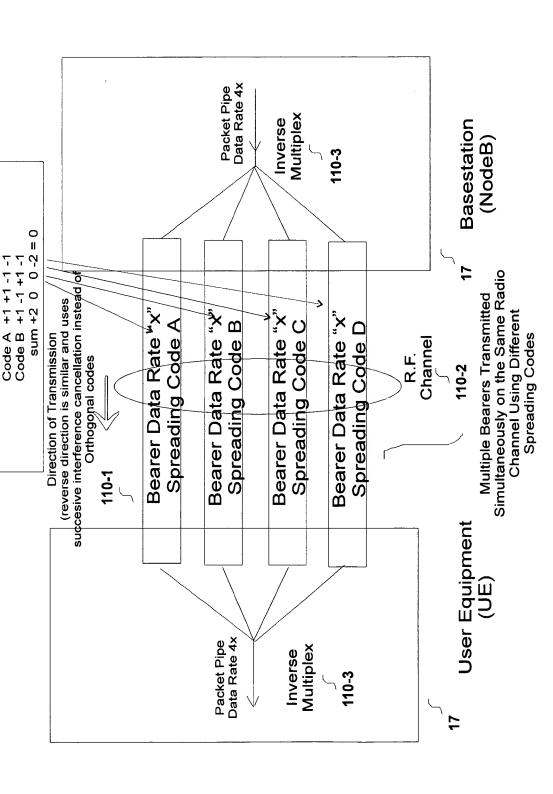


Figure 10 Multiple Bearer Transmission

:: |:=}

Figure 11 CDMA Backhaul Transmission

12-1

Figure 12 Peer to Peer Backhaul Routing

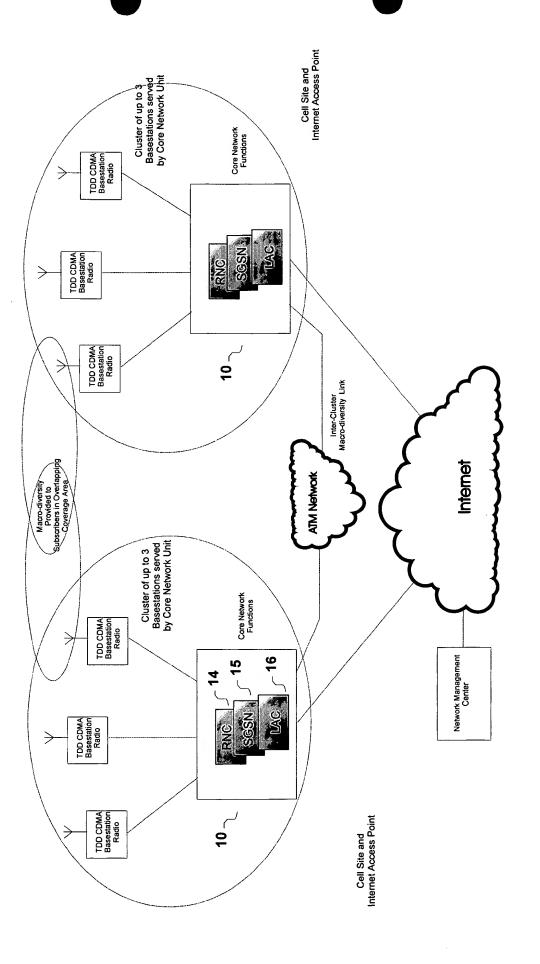


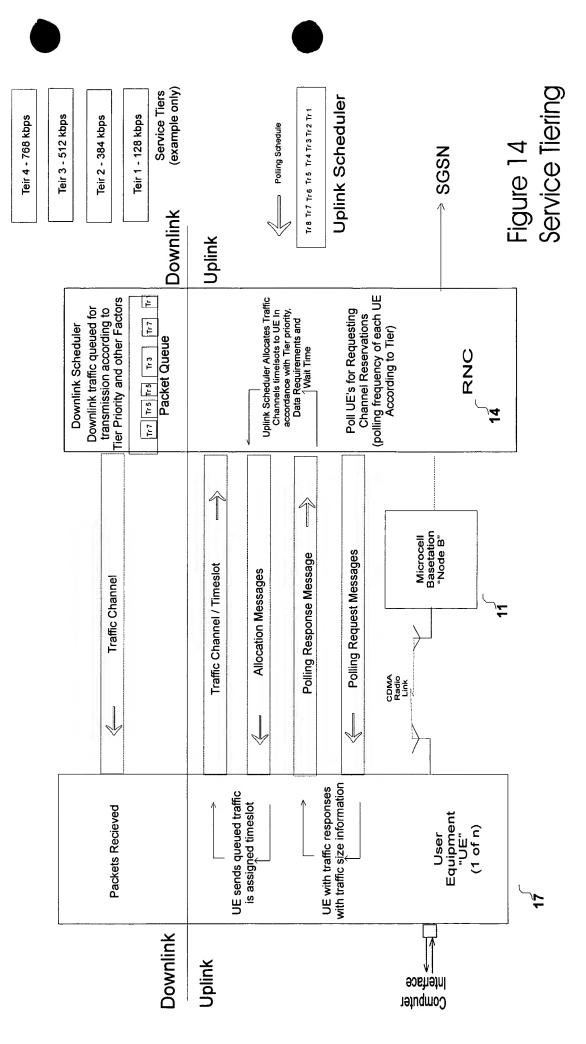
Figure 13 Distributed Core Network Functions

Teir 5 - 1024 kbps

Teir 6 - 1536 kbps

Teir 8 - Reserved

Teir 7 - 1536 kbps



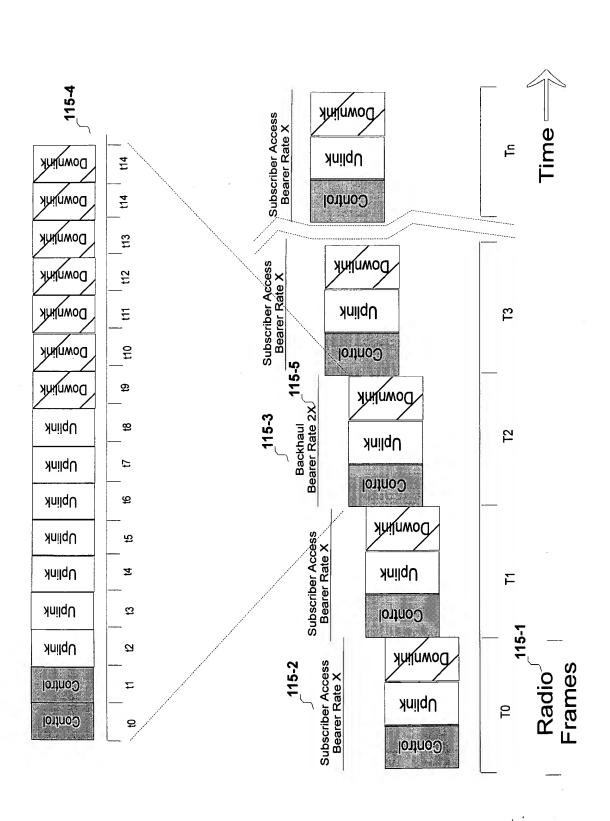
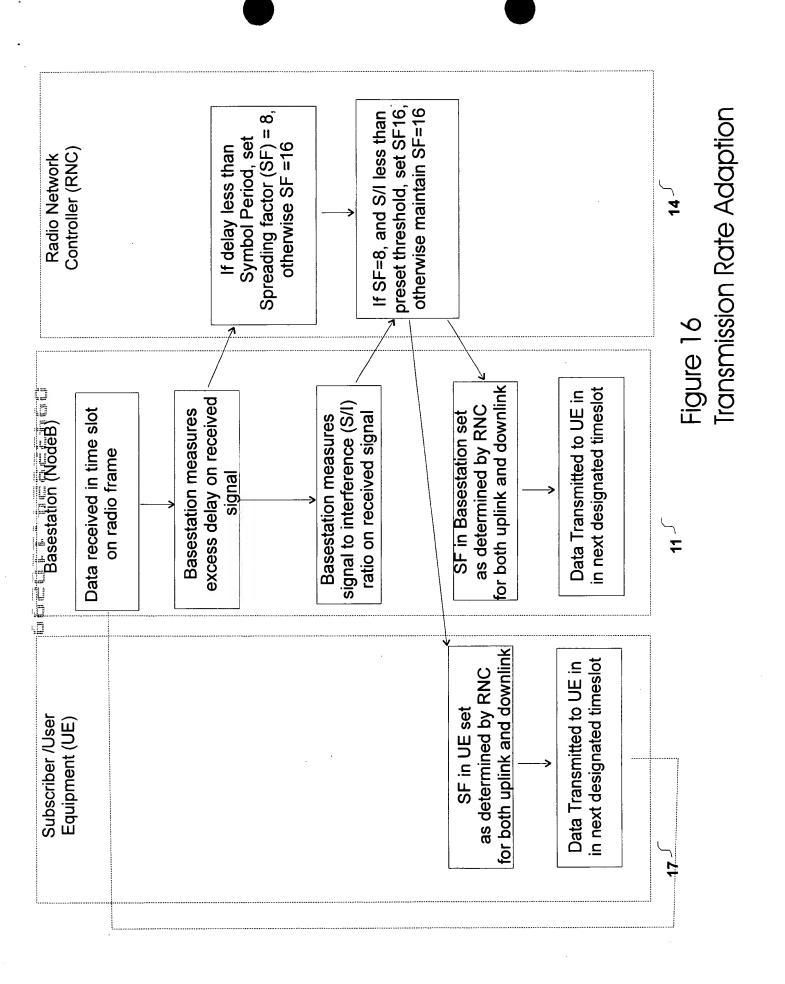
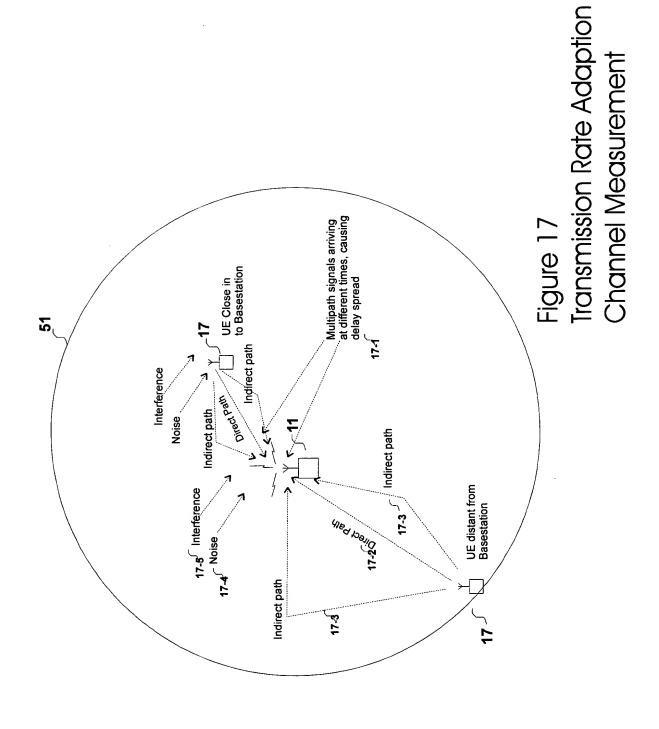


Figure 15 Enhanced Time-Division-Duplex





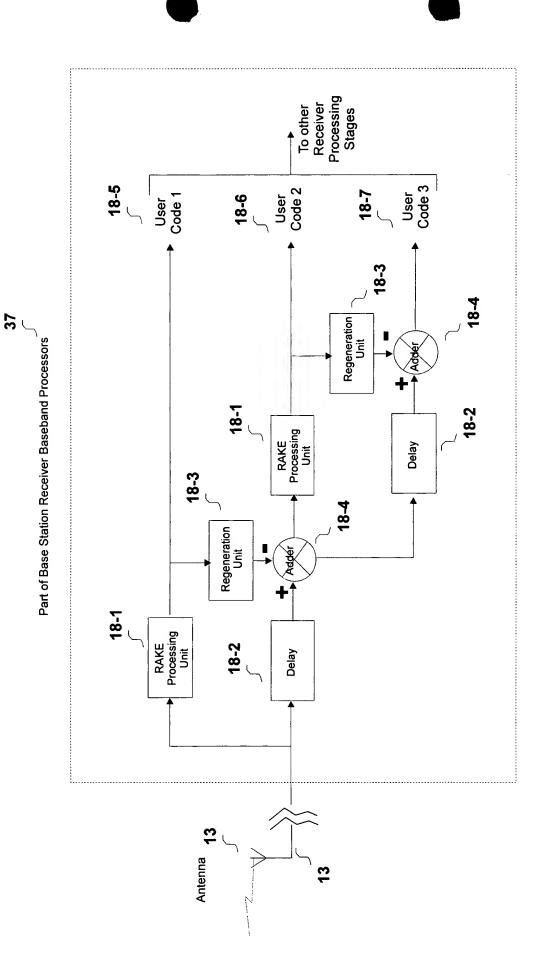


Figure 18 - Successive Interference Cancellation